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1. A display device comprising a viewing window or a screen, a housing filled with a plurality of silicone compounds, and means for producing an image on the screen.
- 5 2. A device according to claim 1 or 31, in which the screen or the window is disposed between a front bezel and the housing, with at least one gasket being disposed between the bezel and the housing.
- 10 3. A device according to claim 1 or 31, in which the silicone situated behind the window or the screen presents a refractive index that is identical or close to that of the material constituting said screen or said window.
- 1 4. A device according to claim 1 or 31, in which the silicone situated behind said screen or said window is transparent in the visible range of the spectrum.
- 5 5. A device according to claim 1 or 31, in which the silicone situated immediately behind the screen or the window is a semi-liquid or gel or elastomer silicone.
- 15 8. A lighting device comprising a screen or a window electromagnetic radiation producing means, a housing filled with silicone, said silicone withstanding high temperatures.
9. A device according to claim 8 or 32, in which the silicone is liquid.
- 20 10. A camera comprising a viewing window, a housing filled with a plurality of silicones, and a radiation receiver for radiation coming from outside the housing and passing through the window.
11. A camera according to claim 10, further comprising one or more controlling motors controlling camera adjustment.
- 25 12. A camera according to claim 10 or 11, in which one silicone is liquid or semi-liquid.

13. An optical device comprising a window or a viewing screen, a housing filled with a plurality of silicones, an optical component receiving radiation which penetrates into the housing by passing through the window or the screen, or producing and emitting radiation which leaves the housing by passing through the window or the screen.

5 14. A device according to claim 13, in which the silicone situated behind the window or the screen presents a refractive index that is identical or close to that of the material constituting the window or the screen.

15. A device according to claim 13 or 14, in which the silicone situated behind the window or the screen is transparent in the visible range of the spectrum.

10 16. A device according to claim 13 or 14, in which the silicone situated immediately behind the window or the screen is a semi-liquid or gel or elastomer silicone.

15 18. A device according to claim 13 or 14, comprising an optical portion filled with a silicone in semi-liquid or elastomer or gel form, and an electronics portion filled with a liquid silicone.

10 19. A method of filming a scene in which a camera is used according to claim 10.

20 20. A method of filming according to claim 19, in which a display device according to claim 1 or 31 is connected to the camera and enables the scene seen by the camera to be viewed.

21. A method of filming according to claim 19 or 20 in which the scene is lighted by a lighting device according to claim 8.

22. A method according to claim 19, in which filming takes place in an underwater environment.

25 23. A method of filming according to claim 22, in which filming takes place at a depth of more than 100 meters below the surface of the water.

24. A method of filming in a non-pressurized medium, in which a camera is used, comprising a viewing window, a housing filled with silicone and a radiation receiver receiving radiation coming from outside the housing and passing through the window.

5 25. A method according to claim 33, in which filming takes place in the stratosphere or beyond.

26. A method of making an optical component comprising a window or a viewing screen, a housing, and optical components, the method comprising:

- evacuating the inside of the housing by pumping; and
- injecting at least two silicone compounds into the housing.

10 27. A method of maintaining an optical device comprising a viewing screen or a window, a housing filled with a plurality of silicone compounds, one of them being a liquid silicone, and optical components, the method comprising:

- a step of draining said liquid silicone compounds
- a maintenance or repair step;
- 15 - a step of evacuating the inside of the housing by pumping; and
- a step of injecting at least one silicone compound into the housing.

28. A method according to claim 26 or 27, further comprising degassing the silicone after it has been injected.

20 29. A method according to claim 26 or 27, further comprising polymerizing the silicone after it has been injected.

31. A display device comprising a viewing window or a screen, a housing, an optical portion filled with a silicone in semi-liquid or elastomer or gel form and an electronic portion filled with a liquid silicone.

25 32. A lighting device as in claim 8, said silicone withstanding temperatures up to + 260°C.

33. A method of filming according to claim 19, in which filming takes place in a non-pressurized medium.

34. A method according to claim 24 or 25, in which a display device is connected to the camera and enables the scene seen by the camera to be viewed, said display
5 device comprising a viewing window or a screen, a housing filled with silicone, and image producing means.

35. A method according to claim 24 or 25, in which the scene is lighted by a lighting device comprising a window, a housing filled with silicone and electromagnetic radiation producing means.

10 36. A method of making an optical component comprising a window or a viewing screen, a housing, and optical components, the method comprising:

- evacuating the inside of the housing by pumping;
- injecting at least one silicone compound into the housing
- polymerizing said silicone after it has been injected.

15 37. A display device comprising a viewing window or a screen, a housing filled with a plurality of silicone compounds, and signal processing cards.

38. A device according to claim 32, in which the silicone situated behind the screen presents a refractive index that is identical or close to that of the material constituting the screen or the window.

20 39. A device according to claim 38, in which the silicone situated behind the screen or the window is transparent in the visible range of the spectrum.

40. A device according to claim 39, in which the silicone situated immediately behind the screen or the window is a semi-liquid or gel or elastomer silicone.

25 41. A device according to claim 40, having an optical portion filled with a silicone in semi-liquid or elastomer or gel form, and an electronics portion filled with a liquid silicone.

42. A method of displaying an image in a non-pressurized medium, comprising displaying said image on a display device comprising a viewing window or a screen, a housing filled with silicone and image producing means producing an image on said screen.

5 43. A method of displaying an image in a non-pressurized medium, comprising displaying said image on a display device comprising a viewing window or a screen, a housing filled with silicone and signal processing cards.

44. A method as in claims 42 or 43, taking place in the stratosphere or beyond.

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10 45. A method of lighting in a non-pressurized medium, comprising lighting with a lighting device having a screen or a window, a housing filled with silicone, and means for producing electromagnetic radiation.

46. A method as in claim 45, taking place in the stratosphere or beyond.

15 47. A camera comprising a viewing window, a housing filled with liquid or semi-liquid silicone, a radiation receiver for radiation coming from outside the housing and passing through the window, one or more motors controlling camera adjustment.
